

## Product Information

**Size:**

50ug

**Reactivity:**

Human

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, WB, IHC, IF

**Recommended dilutions:**

ELISA:1:2000-1:10000, WB:1:500-1:2000,  
IHC:1:20-1:200, IF:1:50-1:200

**Protein Background:**

Voltage-gated calcium channel that plays a central role in calcium-dependent physiological responses essential for successful fertilization, such as sperm hyperactivation, acrosome reaction and chemotaxis towards the oocyte. Activated by extracellular progesterone and prostaglandins following the sequence: progesterone > PGF1-alpha = PGE1 > PGA1 > PGE2 >> PGD2. The primary effect of progesterone activation is to shift voltage dependence towards more physiological, negative membrane potentials; it is not mediated by metabotropic receptors and second messengers. Sperm capacitation enhances the effect of progesterone by providing additional negative shift. Also activated by the elevation of intracellular pH.

**Gene ID:**

CATSPER2

**Uniprot**

Q96P56

**Synonyms:**

Cation channel sperm-associated protein 2 (CatSper2), CATSPER2

**Immunogen:**

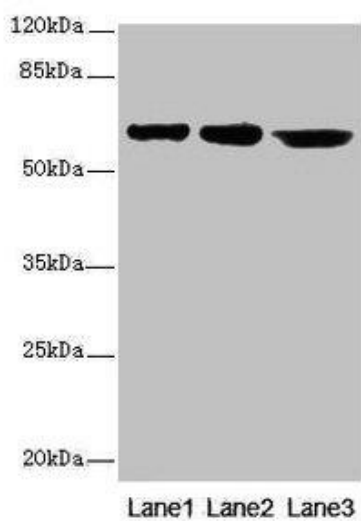
Recombinant Human Cation channel sperm-associated protein 2 protein (5-112AA).

**Storage:**

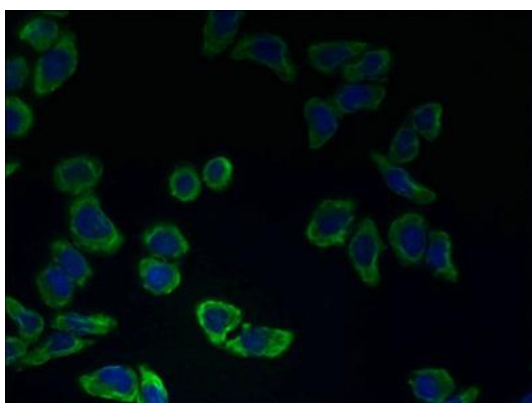
Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

## Product Images

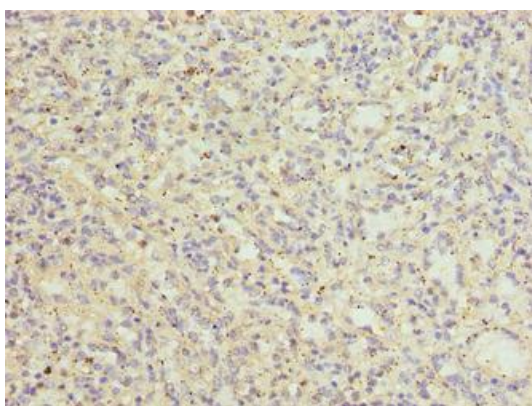
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Western blot. All lanes: CATSPER2 antibody at 4 $\mu$ g/ml. Lane 1: Jurkat whole cell lysate. Lane 2: HepG2 whole cell lysate. Lane 3: 293T whole cell lysate. Secondary. Goat polyclonal to rabbit IgG at 1/10000 dilution. Predicted band size: 63, 62, 49, 24 kDa. Observed band size: 63 kDa.



Immunofluorescent analysis of LO2 cells using PACO39034 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemistry of paraffin-embedded human spleen tissue using PACO39034 at dilution of 1:100.